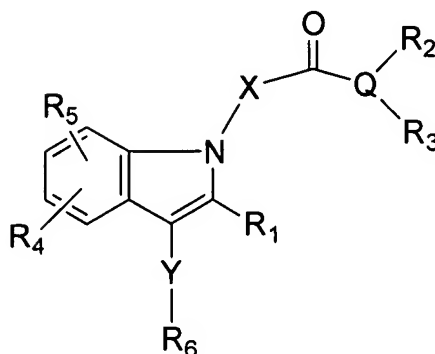


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In the Claims

1(Currently Amended)

A compound of the structural formula I:



Formula I

or a pharmaceutically acceptable salt, enantiomer, diastereomer or mixture thereof;
wherein,

R represents hydrogen, or C₁₋₆ alkyl;

R₁ represents hydrogen or C₁₋₆ alkyl, CF₃, C₁₋₆ alkoxy, COR^c, CO₂R₈, CONHCH₂CO₂R, N(R)₂, said alkyl and alkoxy optionally substituted with 1-3 groups selected from R^b;

X represents -(CHR⁷)_p-;

Y is not present, -CO(CH₂)_n-, or -CH(OR)-;

Q represents N, CR^y, or O, wherein R₂ is absent when Q is O;

R^y represents H, or C₁₋₆ alkyl;

R_w represents H, C₁₋₆ alkyl, -C(O)C₁₋₆ alkyl, -C(O)OC₁₋₆ alkyl, -SO₂N(R)₂, -SO₂C₁₋₆ alkyl, -SO₂C₆₋₁₀ aryl, NO₂, CN or -C(O)N(R)₂;

R₂ represents hydrogen, C₁₋₁₀ alkyl, C₁₋₆ alkylSR, -(CH₂)_nO(CH₂)_mOR, -(CH₂)_nC₁₋₆ alkoxy, -(CH₂)_nC₃₋₈ cycloalkyl, -(CH₂)_nC₃₋₁₀ heterocyclyl, -(CH₂)_nC₅₋₁₀ heteroaryl, -N(R)₂, -COOR, or -(CH₂)_nC₆₋₁₀ aryl, said alkyl, heterocyclyl, aryl or heteroaryl optionally substituted with 1-3 groups selected from R^a;

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R₃ represents hydrogen, C₁₋₁₀ alkyl, -(CH₂)_nC₃₋₈ cycloalkyl, -(CH₂)_nC₃₋₁₀ heterocyclyl, -(CH₂)_nC₅₋₁₀ heteroaryl, -(CH₂)_nCOOR, -(CH₂)_nC₆₋₁₀ aryl, -(CH₂)_nNHR₈, -(CH₂)_nN(R)₂, -(CH₂)_nNHCOOR, -(CH₂)_nN(R₈)CO₂R, -(CH₂)_nN(R₈)COR, -(CH₂)_nNHCOR, -(CH₂)_nCONH(R₈), aryl, -(CH₂)_nC₁₋₆ alkoxy, CF₃, -(CH₂)_nSO₂R, -(CH₂)_nSO₂N(R)₂, -(CH₂)_nCON(R)₂, -(CH₂)_nCONHC(R)₃, -(CH₂)_nCOR₈, nitro, cyano or halogen, said alkyl, alkoxy, heterocyclyl, aryl or heteroaryl optionally substituted with 1-3 groups of R^a;

or, when Q is N, R₂ and R₃ taken together with the intervening N atom form a 4-10 membered heterocyclic carbon ring optionally interrupted by 1-2 atoms of O, S, C(O) or NR, and optionally having 1-4 double bonds, and optionally substituted by 1-3 groups selected from R^a;

R₄ and R₅ independently represent hydrogen, C₁₋₆ alkoxy, OH, C₁₋₆ alkyl, COOR, SO₃H, O(CH₂)_nN(R)₂, O(CH₂)_nCO₂R, C₁₋₆ alkylcarbonyl, S(O)_qRY, OPO(OH)₂, CF₃, N(R)₂, nitro, cyano or halogen;

R₆ represents hydrogen, C₁₋₁₀ alkyl, -(CH₂)_nC₆₋₁₀ aryl, -(CH₂)_nC₅₋₁₀ heteroaryl, (C₆₋₁₀ aryl)O-, -(CH₂)_nC₃₋₁₀ heterocyclyl, -(CH₂)_nC₃₋₈ cycloalkyl, -COOR, -C(O)CO₂R, said aryl, heteroaryl, heterocyclyl and alkyl optionally substituted with 1-3 groups selected from R^a, with the proviso that when Y is absent, X is absent when p=0, R₁ is hydrogen, and Q is CR_y then R₆ is not hydrogen;

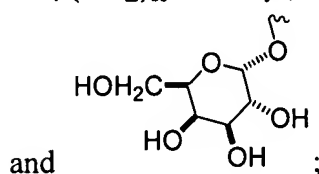
R₇ represents hydrogen, C₁₋₆ alkyl, -(CH₂)_nCOOR or -(CH₂)_nN(R)₂,

R₈ represents -(CH₂)_nC₃₋₈ cycloalkyl, -(CH₂)_nC₃₋₁₀ heterocyclyl, C₁₋₆ alkoxy or -(CH₂)_nC₅₋₁₀ heteroaryl, said heterocyclyl, aryl or heteroaryl optionally substituted with 1-3 groups selected from R^a;

R^a represents F, Cl, Br, I, CF₃, N(R)₂, NO₂, CN, -COR₈, -CONHR₈, -CON(R₈)₂, -O(CH₂)_nCOOR, -NH(CH₂)_nOR, -COOR, -OCF₃, -NHCOR, -SO₂R, -SO₂NR₂, -SR, (C₁-C₆ alkyl)O-, -(CH₂)_nO(CH₂)_mOR, -(CH₂)_nC₁₋₆ alkoxy, (aryl)O-, -OH, (C₁-C₆ alkyl)S(O)_m-, H₂N-C(NH)-, (C₁-C₆ alkyl)C(O)-, (C₁-C₆ alkyl)OC(O)NH-, -(C₁-C₆ alkyl)NR_w(CH₂)_nC₃₋₁₀ heterocyclyl-R_w, -(C₁-C₆ alkyl)O(CH₂)_nC₃₋₁₀ heterocyclyl-

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R_w , $-(C_1-C_6 \text{ alkyl})S(CH_2)_n C_{3-10} \text{ heterocyclyl}-R_w$, $-(C_1-C_6 \text{ alkyl})-C_{3-10} \text{ heterocyclyl}-R_w$, $-(CH_2)_n-Z^1-C(=Z^2)N(R)_2$, $-(C_{2-6} \text{ alkenyl})NR_w(CH_2)_n C_{3-10} \text{ heterocyclyl}-R_w$, $-(C_{2-6} \text{ alkenyl})O(CH_2)_n C_{3-10} \text{ heterocyclyl}-R_w$, $-(C_{2-6} \text{ alkenyl})S(CH_2)_n C_{3-10} \text{ heterocyclyl}-R_w$, $-(C_{2-6} \text{ alkenyl})-C_{3-10} \text{ heterocyclyl}-R_w$, $-(C_{2-6} \text{ alkenyl})-Z^1-C(=Z^2)N(R)_2$, $-(CH_2)_n SO_2 R$, $-(CH_2)_n SO_3 H$, $-(CH_2)_n PO(OR)_2$, cyclohexyl, morpholinyl, piperidyl, pyrrolidinyl, thiophenyl, phenyl, pyridyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, thienyl, furyl, isothiazolyl, $C_{2-6} \text{ alkenyl}$, and $C_1-C_{10} \text{ alkyl}$, said alkyl, alkenyl, alkoxy, phenyl, pyridyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, thienyl, furyl, and isothiazolyl optionally substituted with 1-3 groups selected from $C_1-C_6 \text{ alkyl}$, CN, $(CH_2)_n \text{ tetrazolyl}$, COOR, $SO_3 H$, OH, F, Cl, Br, I, $-O(CH_2)_n CH(OH)CH_2 SO_3 H$,



Z^1 and Z^2 independently represents NR_w , O, CH_2 , or S;

R^b represents $C_{1-6} \text{ alkyl}$, $-COOR$, $-SO_3 R$, $-OPO(OH)_2$, $-(CH_2)_n C_{6-10} \text{ aryl}$, or $-(CH_2)_n C_{5-10} \text{ heteroaryl}$;

R^c represents hydrogen, $C_{1-6} \text{ alkyl}$, or $-(CH_2)_n C_{6-10} \text{ aryl}$;

m is 0-3;

n is 0-3;

q is 0-2; and

p is 0-1.

2(Currently Amended). A compound according to claim 1 of the structural formula I wherein X represents CHR_7 .

3(Original). A compound according to claim 1 wherein Y is -
 $CO(CH_2)_n$.

4(Original). A compound according to claim 1 wherein Y is $CH(OR)$.

5(Original). A compound according to claim 1 wherein Q is N.

6(Currently amended). A compound according to claim 1 wherein Q is CR_y , and R_y is hydrogen.

7(Original). A compound according to claim 2 wherein R_6 is $(CH_2)_n C_{6-10} \text{ aryl}$, $(CH_2)_n C_{5-10} \text{ heteroaryl}$, $(CH_2)_n C_{3-10} \text{ heterocyclyl}$, or $(CH_2)_n C_{3-8}$

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cycloalkyl, said aryl, heteroaryl, heterocyclyl and alkyl optionally substituted with 1 to 3 groups of R^a.

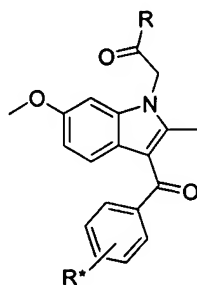
8(Original). A compound according to claim 6 wherein R₇ is hydrogen or C₁₋₆ alkyl.

9(Original). A compound according to claim 6 wherein Q is N and n is 0.

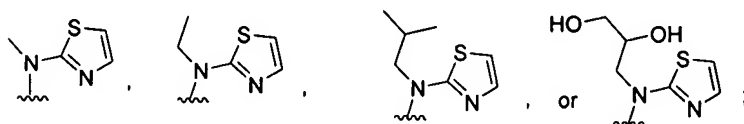
10(Original). A compound according to claim 1 wherein Y is -CO(CH₂)_n, Q is N, n is 0, R₂ is C₁₋₁₀ alkyl or C₁₋₆ alkylOH and R₃ is (CH₂)_nC₃₋₁₀ heterocyclyl, said heterocyclyl and alkyl optionally substituted with 1 to 3 groups of R^a.

11(Original). A compound selected from Tables 1 through 14 which is:

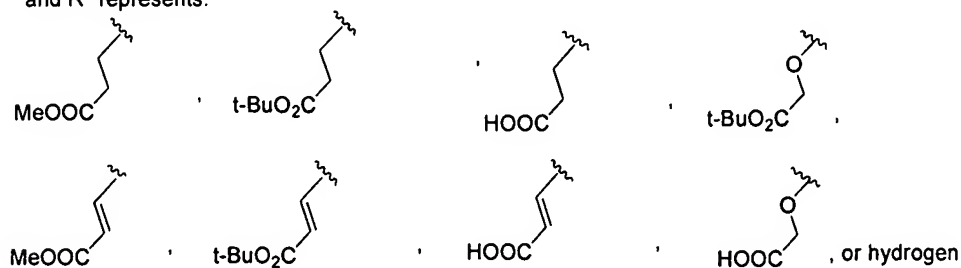
Table 1



Wherein R represents:

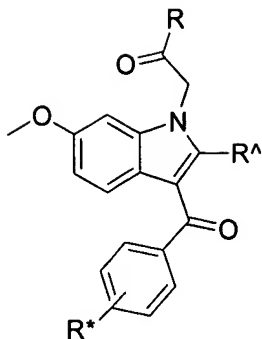


and R* represents:

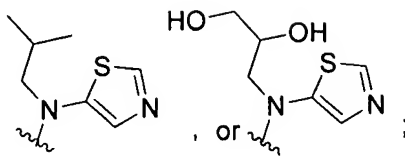
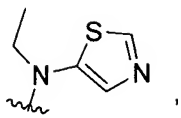
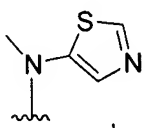


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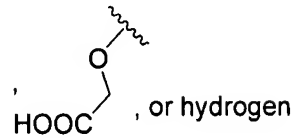
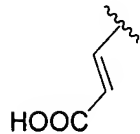
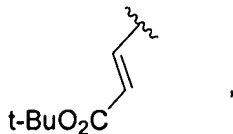
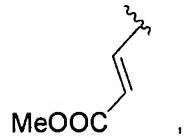
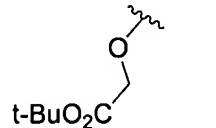
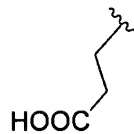
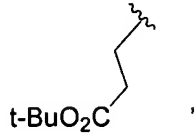
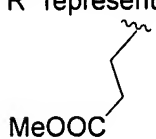
Table 2



Wherein R represents:



R* represents:

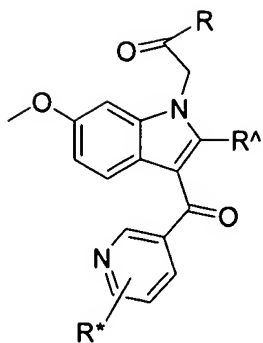


and R^A represents hydrogen or methyl

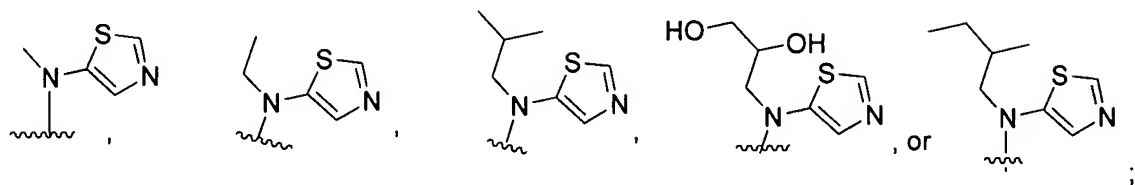
;

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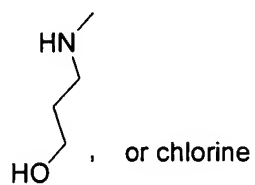
Table 3



Wherein R represents:

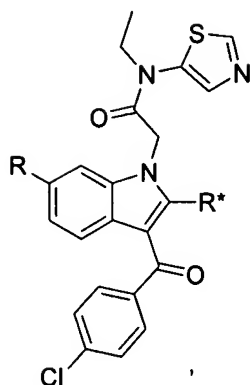


R* represents:

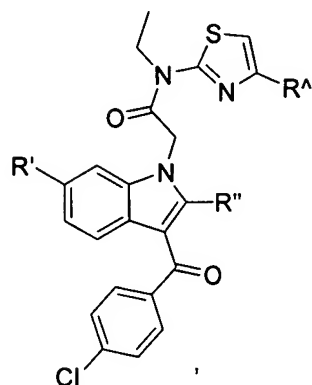
and R^A represents hydrogen or methyl;

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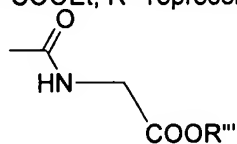
Table 4



R represents methyl or methoxy and R* represents methyl, H or COOH;

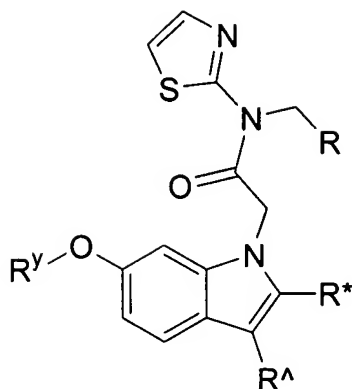


R' represents methyl or methoxy; R^A represents hydrogen or COOEt; R''' represents COOH or COOtBu; and R'' represents: COOMe, H, COOH, or










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Table 5

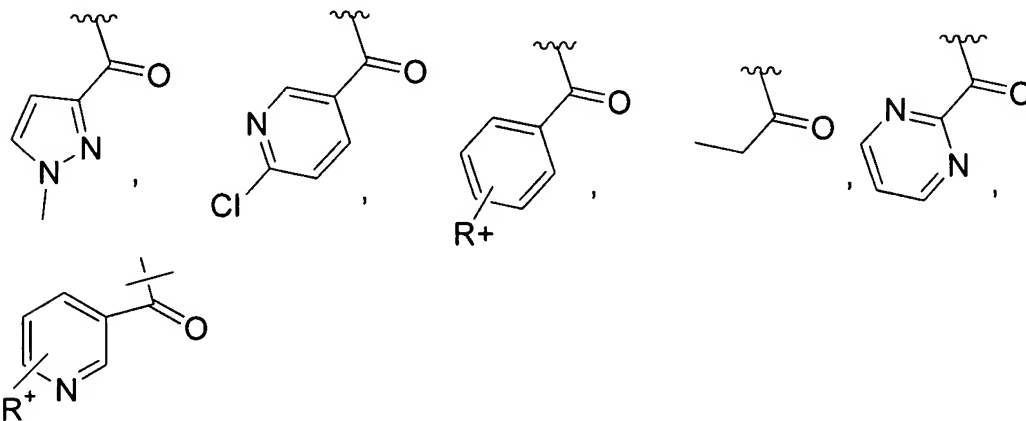


R^* represents hydrogen or methyl;

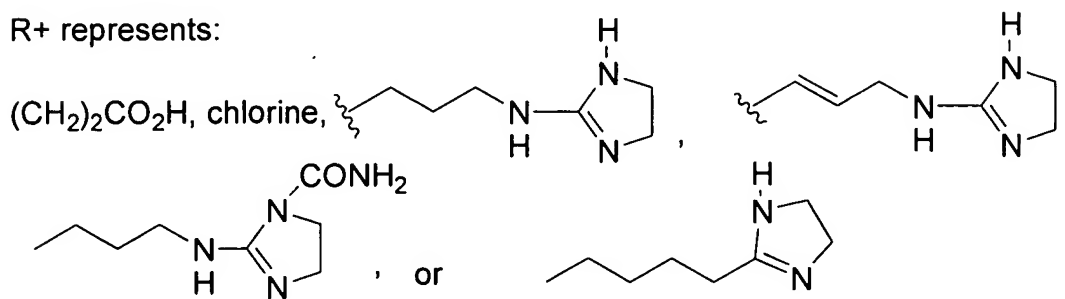
R^y represents methyl or CF_3 ; , , , 

R represents methyl, $(CH_2)_2SCH_3$, , , or 

R^A represents:

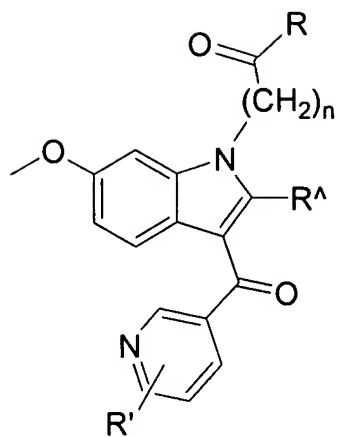
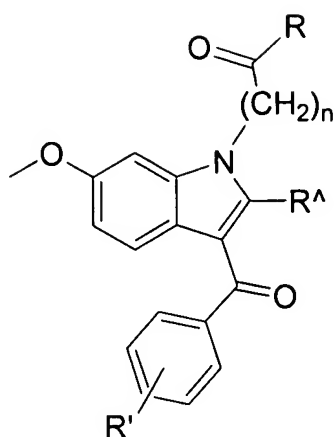


R^+ represents:



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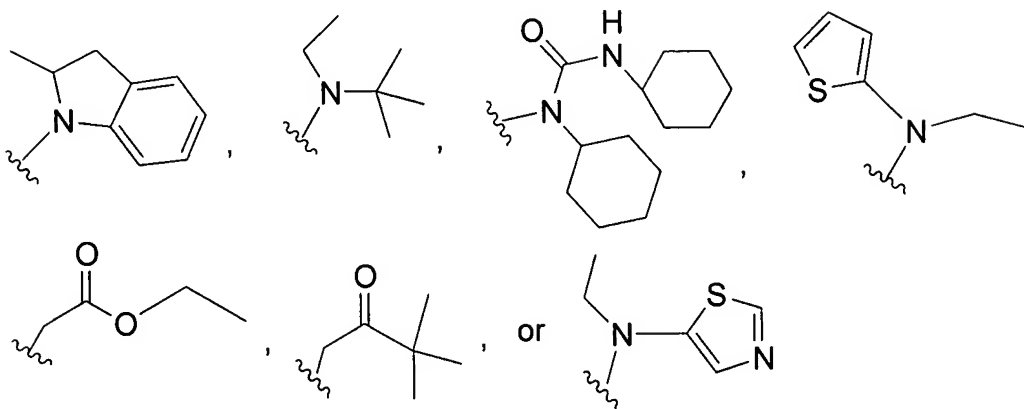
Table 6



Wherein n represents 1-2;

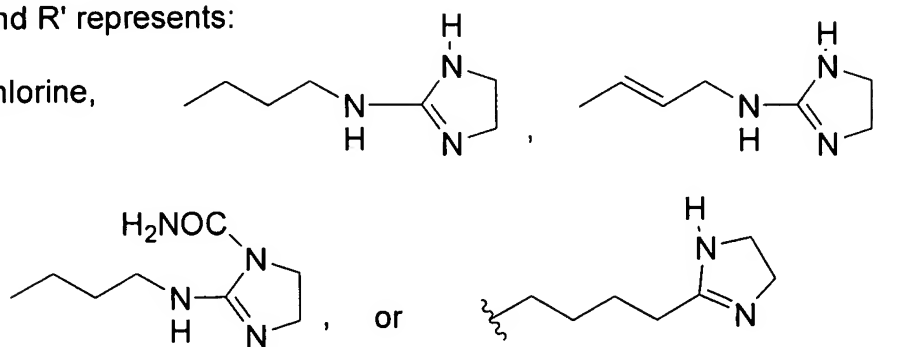
R^A represents hydrogen or methyl

R represents:



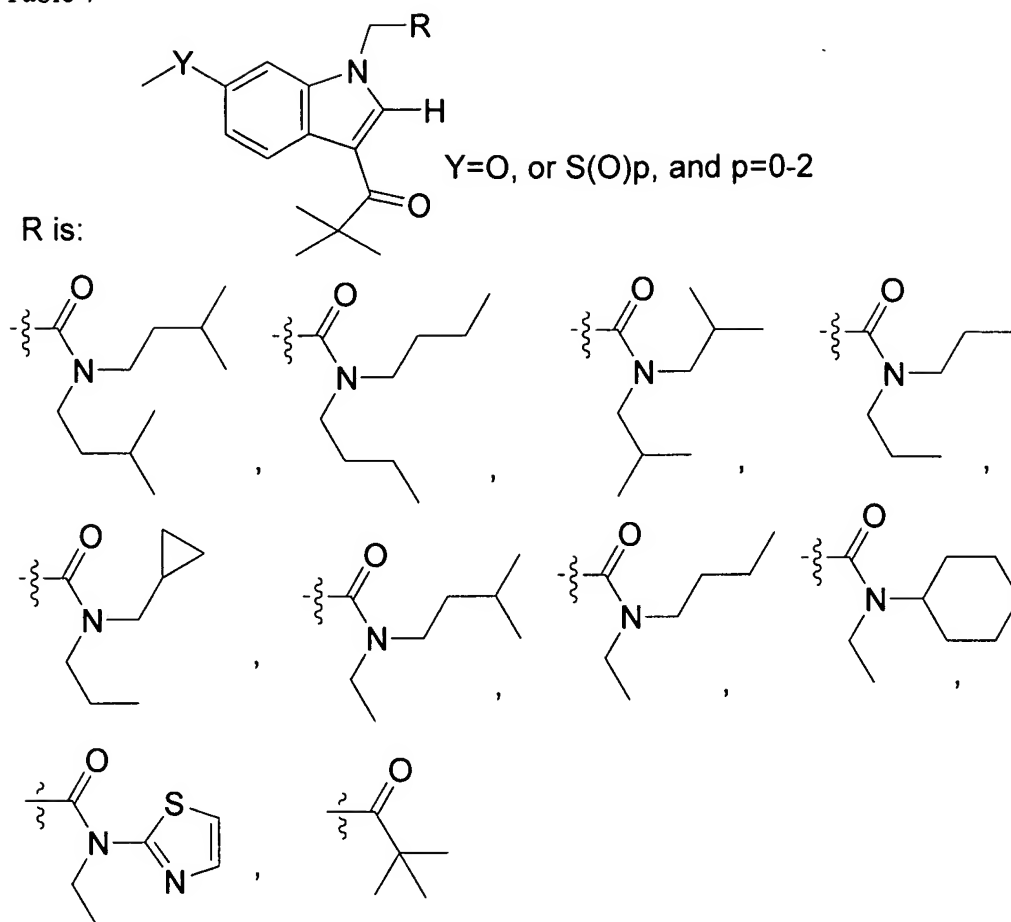
and R' represents:

chlorine,



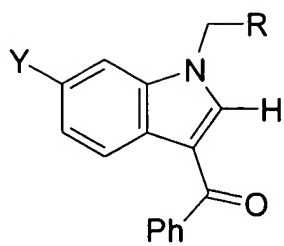
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Table 7



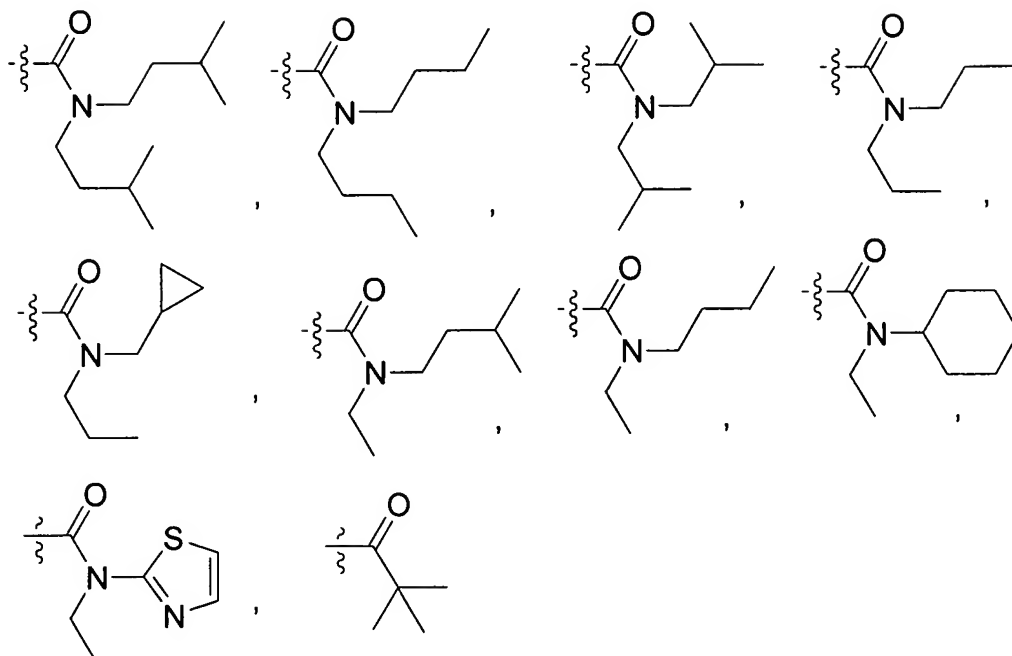
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Table 8



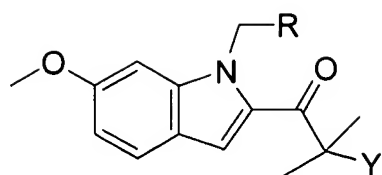
Y = OCH₃, Cl, Br, CH₂CH₃, or CN

R is:

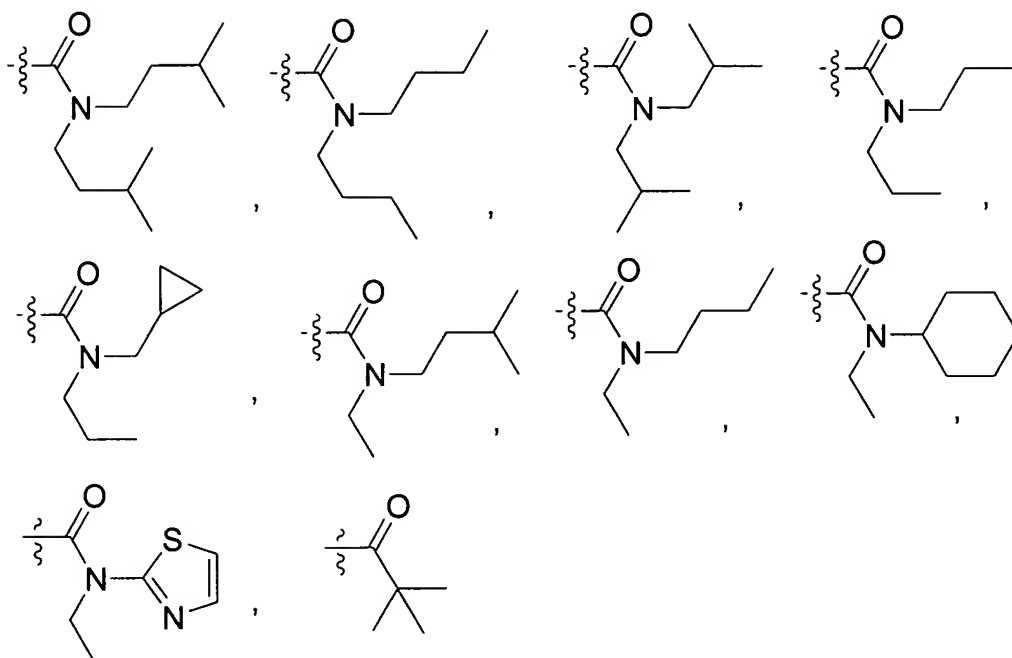


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Table 9

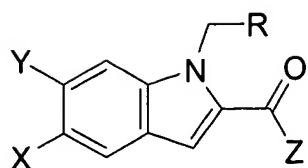
 $\text{Y}=\text{CH}_3$ or CH_2CH_3

R is:



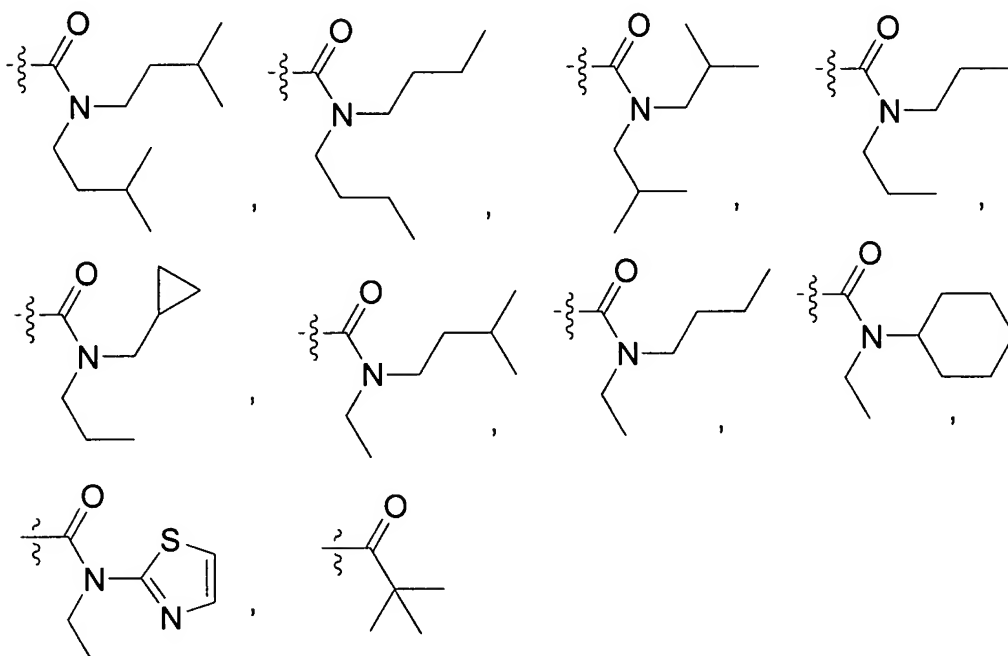
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Table 10



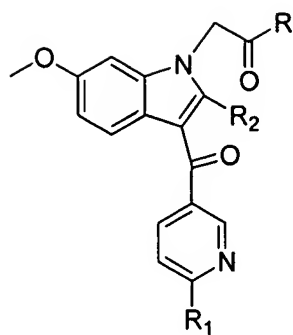
Y=OCH₃, CN, or Cl; X=H, or F; Z=Ph, CH(CH₃)₂, CH₂CH(CH₃)₂

R is:

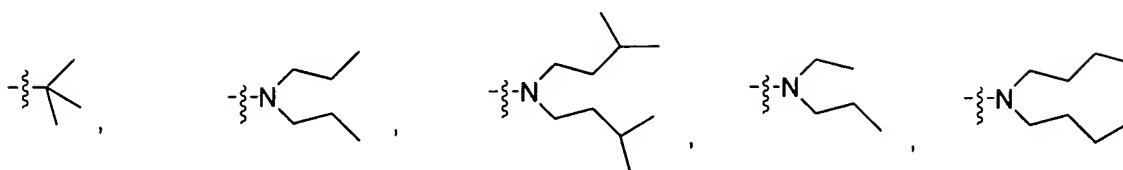
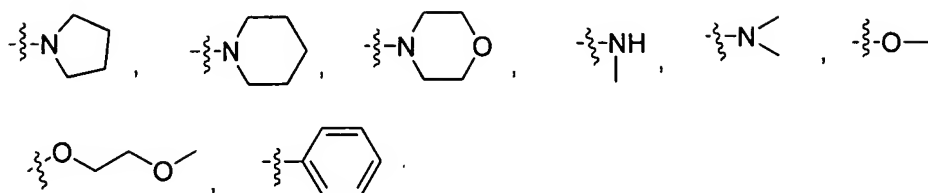


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Table 11

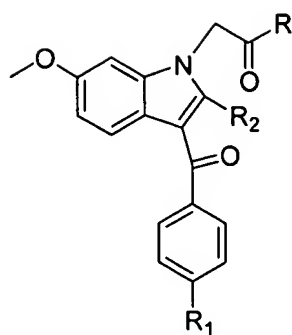


Wherein R represents:

 R_1 represents: R_2 represents: hydrogen or methyl

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Table 12



Wherein R represents:

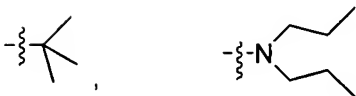
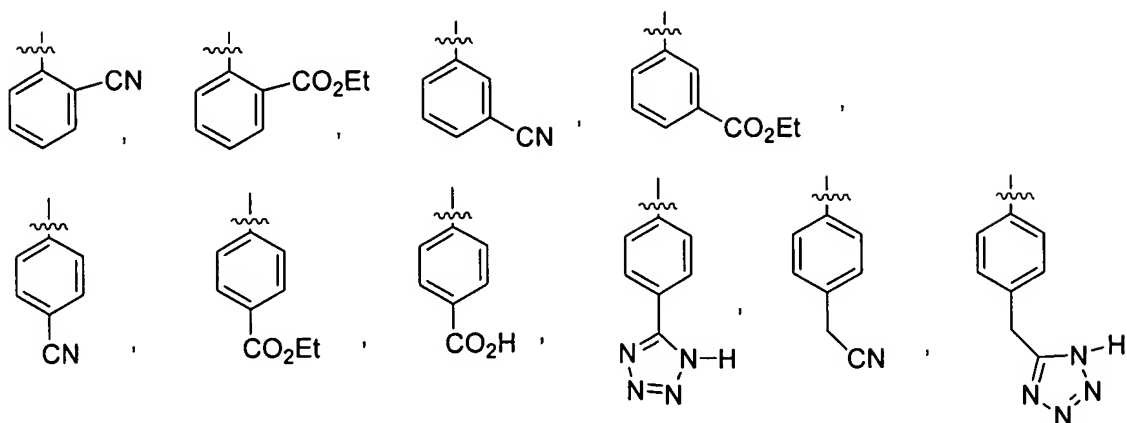
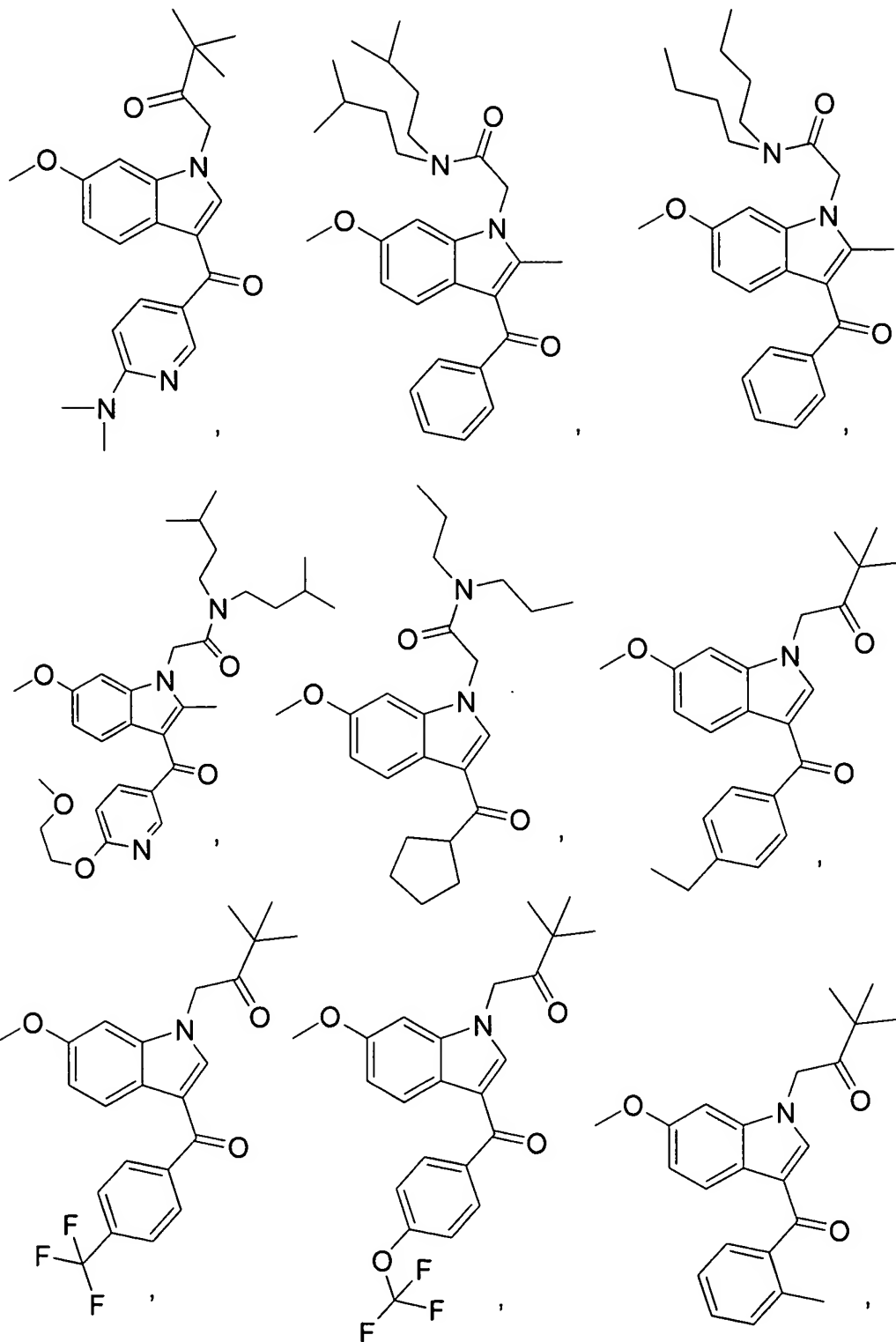
R₁ represents:R₂ represents: hydrogen or methyl

Table 13

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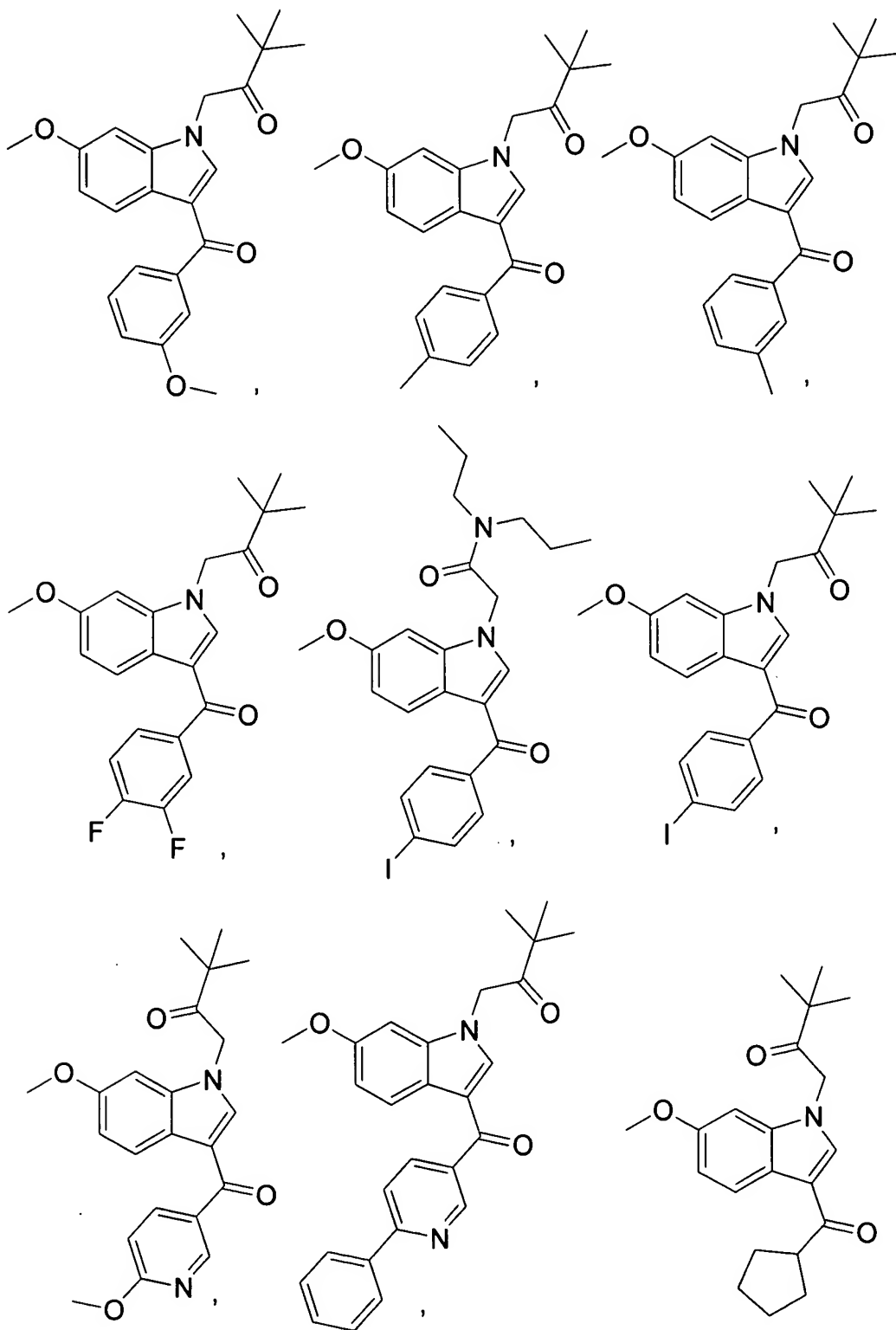
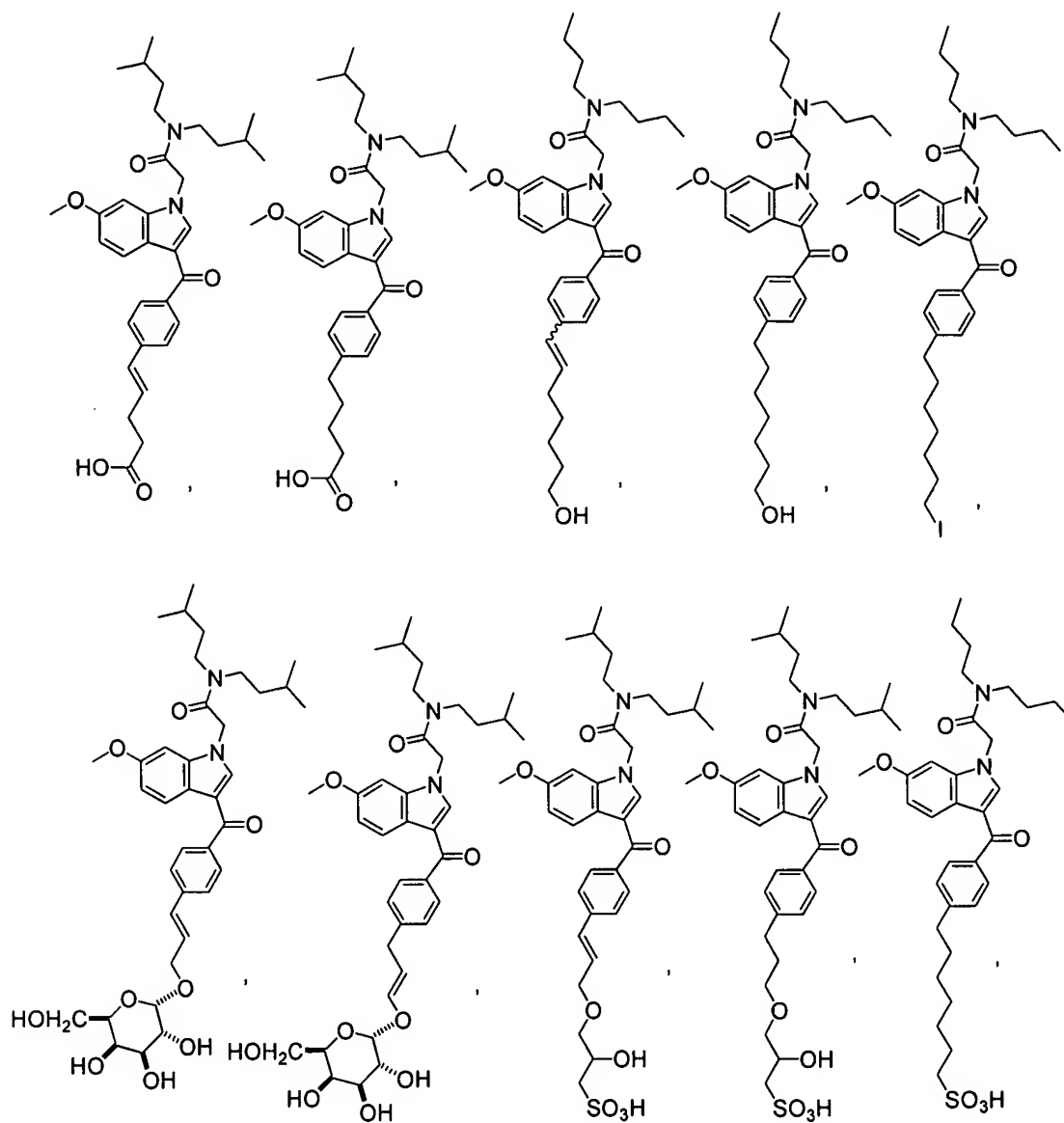
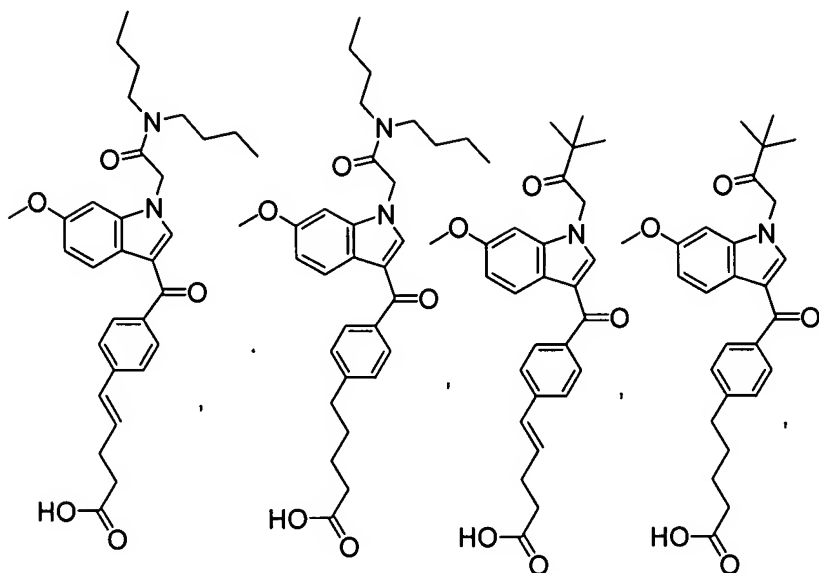


Table 14

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or a pharmaceutically acceptable salt, enantiomer, diastereomer or mixture thereof.

12. Cancel.

13. Cancel.

14. Cancel.

15. Cancel..

16. Cancel.

17. Cancel.

18. Cancel.

19. Cancel.

20. Cancel.

21. Cancel.